

# EXHIBIT A

## Material Safety Data Sheet

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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Material Name** POLYETHYLENE GLYCOL,[1,2-3H]-  
**Version #** 01  
**Item #** NET405000MC  
**Manufacturer Information** PerkinElmer Life Sciences  
549 Albany Street  
Boston, MA 02118  
CHEMTREC 800-424-9300  
Technical Support 800-446-0035

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### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Non-hazardous ingredient(s)	CAS #	Percent
POLY(ETHYLENE GLYCOL)	25322-68-3	90 - 100

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### 3. HAZARDS IDENTIFICATION

### 4. FIRST AID MEASURES

#### General advice

In case of feeling unwell: Consult a physician.

#### First Aid

##### Skin contact

Wash off with soap and plenty of water.

##### Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

##### Inhalation

Move to fresh air.

##### Ingestion

Rinse mouth. Immediately give large quantities of water to drink.

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### 5. FIRE FIGHTING MEASURES

#### Suitable extinguishing media

water spray.  
carbon dioxide (CO<sub>2</sub>), dry chemical, or foam

#### Specific hazards

In the event of fire toxic fumes may be formed.

#### Special protective equipment for firefighters

Wear suitable protective equipment

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Use personal protective equipment.

### Methods for cleaning up

Soak up with inert absorbent material. Clean contaminated surface thoroughly. Keep in suitable and closed containers for disposal.

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## 7. HANDLING AND STORAGE

### Handling

Wear personal protective equipment. Do not breathe vapours/dust. Avoid contact with skin and eyes. Use only in area provided with appropriate exhaust ventilation.

### Storage

Keep tightly closed. Keep contents under nitrogen.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Controls

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Keep away from food and drink. Wash hands before breaks and immediately after handling the product.

#### Respiratory protection

No personal respiratory protective equipment normally required.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

#### Skin and body protection

lab coat

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## 9. PHYSICAL & CHEMICAL PROPERTIES

### General Information

#### Form

solid

#### Color

white

### Important health, safety and environmental information

**Flash Point** 113 °C (235.4 °F)

**Auto Ignition** 305 °C (581 °F)

**Flammability Class** Combustible IIIB

### Physical Properties

**Melting Point** 57 - 61 °C (134.6 - 141.8 °F)

**Specific Gravity** 1.21 g/cm<sup>3</sup>

**Vapor Density** 1 g/l

**Vapor Pressure** 0.01 mm Hg 20 C

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## 10. CHEMICAL STABILITY & REACTIVITY INFORMATION

**Stability**

Stable

**Hazardous decomposition products**

carbon oxides

**Incompatibility**

strong oxidizing agents

**Hazardous Polymerization**

Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity**

May be harmful by inhalation, in contact with skin and if swallowed.  
May cause eye irritation.  
May cause skin irritation.  
May be irritating to mucous membranes and upper respiratory tract.

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## 12. ECOLOGICAL INFORMATION

**Mobility**

Not available

**Ecological Information**

Not available

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## 13. DISPOSAL CONSIDERATIONS

**Disposal Instructions**

In accordance with local and national regulations.

**Waste from residues / unused products**

Dispose of in accordance with local regulations

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## 14. TRANSPORTATION INFORMATION

## 15. REGULATORY INFORMATION

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## 16. OTHER INFORMATION

**Recommended use**

For research use only.

**Disclaimer**

The information provided in this Material Safety Data Sheet is based on our present knowledge, and believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be considered a warranty or quality specification. All materials may present unknown hazards, and should be used with caution. Although certain hazards are described, we cannot guarantee that these are the only hazards which exist. PerkinElmer Life Sciences shall not be held liable for any damage resulting from handling or from contact with the product.